## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION            | INITIALS | ID NO. | DATE |
|---------------------|----------|--------|------|
| FEE DETERMINATION   |          |        |      |
| O.I.P.E. CLASSIFIER |          |        |      |
| FORMALITY REVIEW    |          |        |      |

## INDEX OF CLAIMS

| Rejected Allowed             | N Non-elected I Interference |
|------------------------------|------------------------------|
| - (Through numeral) Canceled | A Appeal<br>O Objected       |

| Claim  |             |               |               |               |              | ÷               | ••        |         | • • • • •  | ••••     | •••••          |            |          | . ne     | SIII     | icu      |           |           |          | ·         | , . |              |              |              |
|--|-------------|---------------|---------------|---------------|--------------|-----------------|-----------|---------|--|----------|----------------|------------|----------|----------|----------|----------|-----------|-----------|----------|-----------|-----|--------------|--------------|--------------|
| Barrier   Barr |             | Doto          |               |               |              |                 |           |         |  | ٦        | ٢              | Claim Date |          |          |          |          |           |           |          |           |     |              |              |              |
| 1  | $\neg \neg$ |               | $\overline{}$ | Τ-            | T            | T               | Т         | 1       | Т  | $\neg$   | $\dashv$       | t          |          |          | T        | Т        | T         | T         |          |           |     |              |              | -            |
| 1  | _   ]       | ē             | İ             | -             |              |                 |           |         | 1  |          | -              | -          | la.      | ging     | -        |          | 1         |           |          | l         | i   |              | -            | -            |
| 1  | ബ.          | <u> </u>      | -             |               |              |                 |           |         |  | _        |                | -          | Ē        | ŏ        | $\perp$  |          | 4         |           | -        | -         |     |              |              | $\dashv$     |
| Section   Sect | 7           |               | 十             | 1             | T            |                 | T         |         |  |          |                |            |          |          | _        | 4        | -         | -         | _        | -         | -   | $\vdash$     | -            |              |
| S4   | -           |               |               |               | I            |                 | $\bot$    |         | $\perp$  | 4        | _              |            | _        |          | -        |          | -         | -         | -        |           |     |              |              | $\dashv$     |
| 5   5   5   5   5   5   5   5   5   5  | 1           | 3             |               | $\perp$       | L            |                 | $\perp$   | $\perp$ | 4  | _        | _              |            |          | i        | $\vdash$ | $\dashv$ | -         | $\dashv$  | -        |           | -   | -            | -            | 一            |
| 56   |             |               | $\Box$        |               | 1            | -               | 4         | +       | -  | -        |                |            |          |          | $\vdash$ | +        | -         | -         | -        |           | -   |              |              |              |
| 6  | _           |               |               |               | -            | +               | +         | +       | +  | -        | $\dashv$       |            | -        |          |          | -        | _         | _         | _        |           |     |              |              |              |
| S  | $\dashv$    |               | -             | +             | +            | +               | +         | +       |  | -        | ㅓ              |            | -        | <b>1</b> |          | 7        |           |           |          |           |     |              |              |              |
| 9  | -           |               | +             | +             | +            | +               | +         | +       |  | -        | H              |            | Г        | 58       |          |          |           |           |          |           | _   | _            | ļ_           | L            |
| 10   | -           |               | $\vdash$      | +             | +            | +               | $\dashv$  | 寸       | _  |          |                | i          |          |          | +        |          |           |           | ļ        | _         | 1   | +            | -            |              |
| 11   | -           |               | -             | _             | 十            | 7               | $\neg$    |         |  |          |                |            |          |          |          | _        |           | _         | -        | -         | ╁   | +-           | -            | -            |
| 13   |             |               |               |               |              |                 |           |         |  |          |                |            | -        |          | -        | -        |           | -         | -        | -         | +   | ┼            | +            | $\vdash$     |
| 14   |             |               |               | $\Box$        | $\perp$      |                 | _         | _       |  | -        | -              |            | -        |          |          | -        | -         | -         | +        | +         | +   | +            | +            | 十            |
| 14   |             |               |               | $\dashv$      | _            | _               |           |         |  | -        | ├-             |            | $\vdash$ |          |          | -        | -         | -         | +        | +         | +   | +            | 1            | $\top$       |
| 16   |             |               | $\sqcup$      |               | -            | _               | -         |         | $\vdash$   | -        | <del> </del> - | 1          | H        |          |          | -        | Ι-        | T         | $t^-$    | T         |     |              | I            |              |
| 10   |             |               | -             |               | -            |                 | -         | -       | -  | +-       | ╁              | 1          | F        |          |          |          | 1         |           | I        |           | I   | I            | I            | 1            |
| 18   | <u> </u>    |               | +-            | -             |              | -               | -         | -       | <del>                                     </del> | T        | -              | 1          |          |          | _        |          |           |           | L        | 1         | 1   | 1            | 4            | +            |
| 19   7   | -           | <del>  </del> | +-            | $\vdash$      |              |                 | <u> </u>  | -       | 1  |          |                | ]          |          |          |          | L        | Ļ         | 1         | $\perp$  | 4         | 4   | - -          | +            | +            |
| 20   | -           |               | +-            |               |              | $\lceil \rceil$ |           |         |  | L        |                |            |          |          |          | 1        | 1         | 1         | +        | -         |     |              | +            | +-           |
| 2  | F           |               | 1             |               |              |                 |           | Π       |  |          |                |            |          |          |          | 1_       | 1         | 1         | +        | -         | +   |              | +            | +            |
| 22   | ┢           |               | 1             |               |              |                 |           |         |  | L        | 1              | 4          | -        |          |          | -        | +-        | +         | +-       | +         |     | -            | +            | +            |
| 24   |             | 22            | I.            |               |              |                 | L         | -       | $\downarrow$                                     | $\perp$  | 4-             | 4          | -        |          |          | +-       | ╁         | ╁         | +        | +         | +   | $\dashv$     | +            | +            |
| 24   |             |               | Ţ.            | <u> </u>      | <u> </u>     | ┞_              | -         | ╁-      | +  | +        | +-             | -          | -        |          |          | +        | ╁         | $\dagger$ | +        | +         | -   |              | $\top$       | +            |
| 25   | L           | _             |               | <del> </del>  | -            | ╀               | -         | -       | +-   | +        | -              | $\dashv$   | +        | _        |          | +        | $\dagger$ | 十         | 十        | +         | 7   |              |              | I            |
| 27   | -           |               | +-            | ┼             | ├-           | ╁               | +         | +-      | +  | +        | +              | $\dashv$   | t        |          |          | +        | 1         | 1         |          |           |     | $\Box$       | $\Box$       | $\perp$      |
| 28       78         29       70         30       81         31       82         33       83         34       84         35       86         37       88         39       89         40       91         41       92         43       94         44       94         48       99         49       99  | -           |               | +             | +             | ╁            | +-              | +-        | ╁       | +  | +        |                | 7          | t        |          | 77       | 1        |           | I         |          |           |     | _            | $\downarrow$ | $\dashv$     |
| 29   | -           |               | +             |               | ╁            | +               | +         | +-      | 十  | +        | +              | ٦          |          |          | 78       |          |           |           | $\perp$  | 1         | _   | _            | _            | -            |
| 30   | $\vdash$    |               | 十             | +-            | +-           | +               | $\dagger$ | †       | 1  |          |                |            |          |          |          | $\perp$  | 4         | $\perp$   | -        | $\dashv$  |     | -            | -            | $\dashv$     |
| 31   | -           |               | i             | 1             | 1            |                 |           |         |  |          |                |            | 1        |          |          | 4        | +         | $\dashv$  | +        | -         | -   | -            | -            | -            |
| 83   84   85   85   85   86   87   88   88   89   89   89   90   90   91   92   92   93   94   94   95   96   96   96   97   98   99   99   99   99   99   99  | T           | 31            |               |               | $oxed{\Box}$ | I               | I         |         | 1  | 4        | $\perp$        | 4          | }        | _        |          | +        | -         | -+        | -+       | -         |     |              |              | $\dashv$     |
| 33   |             |               | $\perp$       |               | _            | _               | $\perp$   | 1       | _  | 4        | -              | 4          | - }      | -        |          | +        | $\dashv$  | +         | $\dashv$ | -         |     | -            | -            | -            |
| 34   |             |               | _             | 4             | 4            | 4               | +         | +       | +  | $\dashv$ | +              |            | Ì        | _        | _        | $\dashv$ | +         | 7         |          | -         |     |              |              |              |
| 35   | -           | 11            | }-            | -             | +            | +               | +         | ╬       | +  | $\dashv$ | -+             | $\dashv$   |          |          |          | +        | +         | 7         |          |           |     |              | _            |              |
| 37   | -           |               | +             | +             | +            | +               | +         |         | $\dashv$   | -        | -              | $\dashv$   |          | $\vdash$ | 86       |          |           |           |          |           |     |              |              | Ш            |
| 38   | ŀ           |               | +             |               | +            | ╅               | +         | 十       | 7  | _        | _              | $\neg$     |          |          | 87       |          |           |           |          | _         | _   | <u> </u>     | _            | _            |
| 90   | ŀ           |               | -             | 十             | +            | 十               | 7         | 1       | 1  |          |                |            |          |          |          | $\perp$  | _         |           |          | _         | -   | <del> </del> | -            |              |
| 41 91 92 92 93 93 94 94 95 96 96 97 98 99 99 99 99 99 99 99 99 99 99 99 99   | Ì           | 39            |               | 1             | +            | 1               | $\top$    |         |  |          |                |            |          | <u>_</u> | -        | _        | _         | _         |          |           |     | <del> </del> | -            | ╁            |
| 41   | Ì           | 40            |               | 1             | $\top$       | T               |           |         |  |          |                |            |          | L        |          |          |           | _         | _        | -         | ├   | ┼-           | -            | ├-           |
| 42   |             | 41            |               | $\neg \vdash$ | T            | T               |           |         |  |          |                |            |          | L        | 1        |          |           |           | -        | -         | ┼-  |              | -            | ╁            |
| 44   | ļ           | 42            |               |               |              | $\Box$          |           |         |  |          | L              |            |          | -        |          | -        |           | -         |          | +-        | +-  | +-           | +            | +            |
| 44   |             |               |               | 1             | _[           | _               | 4         | _       |  | <u> </u> | <del> </del>   | _          |          | -        |          | -        | -         | -         | -        | +         | +-  | +            | +            | +-           |
| 45   |             |               |               | _             | $\dashv$     | _               | _         | _       |  | <u> </u> | +              | -          | 1        | -        |          |          | -         | 1-        | $\vdash$ | +         | +-  | $\top$       | T            | +            |
| 46   |             |               |               | $\dashv$      | 4            | -               |           |         | _  | -        | $\vdash$       | -          |          | -        |          |          |           | 1         | $t^-$    | $\dagger$ | T   | 1            | $\top$       | Ι            |
| 47<br>48<br>49<br>99<br>100  |             |               |               |               | -            | $\dashv$        | -         |         | $\vdash$   | +        | +              | +          | 1        | H        |          | 1        | 1         | T         |          | T         | Τ   | $I^{-}$      | I            | $oxed{\Box}$ |
| 49 99 100  |             |               |               | $\dashv$      | -+           |                 | $\dashv$  |         |  | +-       | +              | +          | 1        |          |          | Τ        |           |           | 1        | I         |     | 1            |              | I            |
|  |             |               |               | -             | -            | $\dashv$        |           | -       | -  | T        | +              | 1          | 1        |          |          | _        | L         |           |          | I         | 1   | 1            | 4            | +            |
| 1 (4V)   |             | <u> </u>      |               | $\vdash$      |              | $\sqcap$        |           |         |  | I        | I              |            | ]        |          | 10       | o        | 1_        | <u>L</u>  | _L       | ⊥.        |     |              |              |              |

| la       | im       |      |         |         |   | Da         | te |          |           |          |            | _        |          |
|----------|----------|------|---------|---------|---|------------|----|----------|-----------|----------|------------|----------|----------|
| ٦        |          | 17   | 7       |         |   | \          |    | ١        | - \       | -        | 1          |          |          |
| _        | Original | 1 1  | Ţ       | ĺ       |   | Ì          | 1  |          | -         | İ        | -          | 1        |          |
| Final    | Ę        | 'l l | - [     | ļ       |   | 1          | 1  | ļ        | - {       | - 1      | - {        |          |          |
| ٠.       |          |      | -+      |         | _ | ┼          | ╅  | +        | 寸         | $\neg$   | _          | 7        |          |
|          | 11       | 9    |         | _       |   | ┼-         | +  | +        | -         |          | -+         | -        |          |
|          | 11       |      | _       |         |   | ↓_         | +  | +        |           |          | +          | $\dashv$ |          |
|          | 11       | 3    | - 1     |         | _ | 1_         | L  | _        | _         |          | -          | -        |          |
|          | 11       | 4    |         |         |   |            | 丄  | _        |           |          | _          | 4        |          |
|          | 11       | 5    |         |         |   | 1          |    |          |           |          |            | ᅴ        |          |
|          | 11       |      | _       |         |   | 1          | T  |          |           |          |            |          |          |
| _        | 11       |      |         | Т       | 1 | +          | 1  |          |           | Γ        |            |          |          |
| _        |          | 18   |         | -       | 十 | +          | +  | _        |           | 1        |            |          |          |
|          |          |      |         | -       | ╁ | -          | +  |          |           |          |            |          |          |
|          |          | 19   |         | -       | ╁ |            | +  |          |           | 1        |            |          |          |
|          |          | 10   |         | ├       | ╀ | -1-        | +  |          | -         | -        | 1-         |          |          |
|          |          | 11   |         | ├-      | ╁ | - -        | +  |          |           | ╁        | +-         |          |          |
|          |          | 12   | L       | -       | + | -          | +  |          | -         | +        | -          |          |          |
| L        | j        | 13   | _       | L       | 4 | -          | -  |          | ├-        | ┼        | ┼-         |          |          |
|          | _1       | 14   | L       | 1       | 1 | 1          | _  |          | 1_        | +-       | +-         | -        | 1        |
| Γ        | 1        | 15   | L       | L       | 1 | 1          |    |          | $\perp$   | +-       | 1          | -        | 1        |
| Γ        | 7        | 16   |         |         |   |            |    |          | 1         | 1        | 4          | 1        | 4        |
| H        | 1        | 117  | Т       | T       | T |            |    |          | 1_        | $\perp$  |            | L        | 4        |
| 1        | 7        | 118  | Т       | T       |   |            |    |          | ]         |          | 1          |          | 1        |
| +        |          | 119  | 十       | 1       | 7 | -1         |    | Г        |           |          |            | <u> </u> |          |
| $\vdash$ | -        | 120  | +-      | +       | - | $\neg$     |    |          | 1         | T        | 1          | T        |          |
| -        | -        |      | +-      |         | + | $-\dagger$ |    | -        | +         | -        | +          | 1        | 1        |
| 1        | -        | 121  | +       | +       | - |            | _  | +-       | +         | +        | +          | +-       | 1        |
| 1        |          | 122  | +-      |         | + |            |    | ╁        | ╁         | +        | -          | +-       | 1        |
| L        | _        | 123  | -       | +       | 4 |            |    | ╁        | +         |          | +          | 十        | 4        |
| L        |          | 124  | 4       | $\perp$ | _ |            | -  | -        |           | $\dashv$ | +          | +        | -        |
| L        | _        | 125  | 1       | 4       | _ |            |    | +        | - -       |          | +          | +        | -        |
| Ł        |          | 126  | $\perp$ | _       | _ |            | ļ  | ╀        | -         | -+       | -+         | +        | -        |
| ſ        |          | 127  |         |         |   |            | L  | 1        | _         | -        |            |          | 4        |
| Ī        |          | 128  |         |         |   |            |    | 1        | _         | _        | _          | _        | 4        |
| 1        |          | 129  | T       |         |   |            |    | 1.       |           |          | $\perp$    | _        |          |
| 1        |          | 130  | 7       | $\neg$  |   |            |    | T        |           |          |            |          | ╛        |
| ł        |          | 131  | _       | -       | _ | _          | T  | T        |           |          |            |          |          |
|          | _        | 132  | -†      |         |   | 1          | T  | 7        |           |          |            |          |          |
| 1        |          | _    | -       |         | _ | +-         | †- | +        | _         |          |            | $\neg$   | ٦        |
|          | -        | 133  | -       |         | - | +-         | +  | +        |           | -        |            | _        | $\neg$   |
|          |          | 135  |         | _       | - | +-         | 十  | +        |           |          |            | 1        | ヿ        |
|          | ├-       | 136  |         | _       | ├ | -          | ╁  | +        |           |          |            | -        | コ        |
|          | -        | 11.  | -       |         | - | +-         | +  | $\dashv$ |           |          |            |          | -1       |
|          | L        | 137  |         | _       | ╁ | +-         | +  | -        | -         | -        | -          | -        | $\dashv$ |
|          | L        | 138  |         |         | 1 |            | +  | {        |           | -        | -          |          |          |
|          | L        | 139  |         | _       | 1 |            | +  | -        |           |          |            |          |          |
|          |          | 140  |         | _       | L |            | 1  |          |           | <u>L</u> | <b> </b> _ |          | -        |
|          | Γ        | 141  | _       |         | L |            |    |          |           | _        | _          |          |          |
|          | T        | 142  |         |         | T | ſ          |    | _        | <u>_</u>  | _        | _          |          |          |
|          | r        | 143  |         | Γ       | T | T          | T  |          | L         | L        | 1_         | L        | _        |
|          | 1        | 144  |         | Γ       | Τ | T          | T  | _        |           | L        | L          | _        | _        |
|          | +        | 145  |         | 1       | + | +          | 1  |          |           | Π        | Γ          |          |          |
|          | $\vdash$ | 146  | ŧ       | †-      | † | 十          | 7  |          | 1         | T        | T          |          | L        |
|          | +        | 147  |         | +       | + | +          | 7  | _        | T         | 1        | 7          | T        | Γ        |
|          | -        | 148  |         | +-      | + | +          | -  |          | $\dagger$ | +        | 1          | $\top$   | T        |
|          | 1        |      |         | +       | + | +          | -1 | _        | T         | $\top$   | 1          | $\top$   | T        |
|          | +        | 149  |         | +       | + | +          |    |          | +         | +        | 1          | 1        |          |
|          | L        | 1130 | 1       | _1      |   |            |    |          |           |          |            |          |          |

If more than 150 claims or 10 actions staple additional sheet here

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